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THESIS

JOB SATISFACTION AND RACE AMONG MILITARY ENLISTEES

Ъу

Ignatius Manggolo

June 1987

Thesis Advisors:

Loren M. Solnick George W. Thomas

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Job Satisfaction And Race Among Military Enlistees

by

Ignatius Manggolo Commander, Indonesian Navy B.S., Indonesian Naval Electronics School, 1967

Submitted in partial fulfillment of the requirements for the degree of

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from the

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ABSTRACT

This thesis investigated the relationship of race to job satisfaction by examining factors considered to be determinants of job satisfaction among military enlistees. The data used in this research was the 1985 DoD Survey of Officer and Enlisted Personnel, conducted for the Office of the Assistant Secretary of Defense by the Defense Manpower Data Center. The study analyzed black, hispanic and white enlistees in all four branches of service. Bivariate analysis, factor analysis and regression analysis was performed to determine the effect of race on those factors considered to be determinants of job satisfaction. The results of the analysis indicated that race was a significant effect on the determination of job satisfaction. An understanding of the effect of race to factors that determine individual's satisfaction will give military policymakers greater opportunities for control over behaviors such as enlistment and retention.

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I. INTRODUCTION AND LITERATURE REVIEW

A. INTRODUCTION

Like any feeling of satisfaction, job satisfaction is an emotional, affective response. Affect refers to feelings of liking or disliking. Therefore, job satisfaction is the extent to which a person derives pleasures from a job. Locke (1976) defines it as "a pleasurable or positive state resulting from the appraisal of one's job or job experiences". This is known as global job satisfaction, and it reflects a general feeling. Psychologists realized that people can feel differently about various aspects of a job, and these feelings are masked by assessing only global satisfaction. This led to examining job facet satisfaction, and involves measuring how people feel about various parts of a job. [Ref. 2: p. 320]

The cost of training new personnel, the need to satisfy accession goals, and the fact that the military is a closed labor market where members enter at the lowest rank, is forcing the military to consider the importance of minority job satisfaction in the formulation of policies and plans for the future. An understanding of the elements that determine an individual's satisfaction will give military policy-makers greater ability to influence behaviors such as enlistment and retention.

This thesis will attempt to determine the relationship of race to job satisfaction, by examining the effect of race on those factors considered to be determinants of job satisfaction among military enlistes. One of the main purposes in determining the differences in job satisfaction by race is that minorities have increased their representation in the general population, and also, they have increased their representation in the military. The second purposes is based on the assumption that turnover is a function of job satisfaction. This assumption is well supported by the literature on job satisfaction and turnover. [Ref. 5: p. 122-126]

B. LITERATURE REVIEW

1. Theories of Job Satisfaction

Several theories have been proposed to explain why people are satisfied with their job. None of the theories have gained a great deal of empirical confirmation, which suggests that job satisfaction is a complex phenomenon with many causal bases and that no one theory to date has been successful in incorporating all of the bases into a single theory. [Ref. 3: p. 309] There are several different approaches to job satisfaction, such as

a. Comparison Processes

Comparison process theories are based on the extent to which a job is perceived to meet a person's needs or values. According to McCormick and Ilgen (1980), "the most widely accepted view of job satisfaction assumes that the degree of affect experienced (by a person) results from some comparison between the individual's standard and the individual's perception of the extent to which the standard is met". Degree of satisfaction is the difference between the standard and what is received from the job. Comparison process theories compare what a person wants (the standard) with what he or she receives. The less the difference, the greater the feeling of satisfaction. [Ref. 4: p. 22]

The standard and how it is derived must be defined. Some researchers believe the standard consists of human needs. Needs are inborn, and it is believed that everyone has the same basic needs. Needs are generally classified in two categories: physical needs required for bodily functioning (air, water, food), and psychological needs required for mental functioning (stimulation, self-esteem, pleasure). Abraham Maslow developed the theory of Need Hierarchy. Maslow postulated that individual motivation was not only a complex construct but was constantly changing. How important the next level of individual needs is, depends on the degree of fulfillment of the previous level of needs. Once a level of need is achieved, its importance decreases. Maslow maintained that human beings rarely reach complete satisfaction. [Ref. 4: p. 7]

Other researchers believe the standard is derived from human values not needs. Values are what a person desires, wants, or seeks to attain. They are learned or acquired over time. All people have the same basic needs, but they differ in what they value. Values determine the choices people make as well as their emotional responses to those choices. A satisfying Job would then provide an opportunity to attain outcomes that a person values. [Ref. 3: p. 319-322]

b. Social Comparison

The basis of the social comparison theory is the belief that people compare themselves to others assessing their own feelings of job satisfaction. Rather than a within or intraperson comparison (based on needs or values), comparison are made within a social system, interpersonally. An individual observes others in similar jobs or and infers how satisfied they are. The person compares himself or herself to other

people and then derives feelings of satisfaction based upon how others feel about their jobs. [Ref. 6: p. 427]

Weiss and Shaw (1979) conducted a study illustrating the influence of individual perceptions of others' satisfaction. They developed a training film showing people working on an electrical assembly. Two types of tasks were shown, one routine and boring, the other interesting. Throughout the film, actors made comments reflecting negative or positive feelings. Participants in the study then worked on one of the tasks. Then they rated their satisfaction with the task. Results indicated that their feelings were influenced by the reactions of the people performing the same task in the film. Weiss and Shaw thus suggested that a sense of satisfaction is derived by observing others. [Ref. 7: p. 126-140]

c. Opponent-Process Theory

Landy (1978) proposed a radically different job satisfaction theory. He said that the causal basis of satisfaction is physiological, involving the central nervous system. An individual's satisfaction will change over time even though the job remains constant. As an example, a job tends to be more interesting during the first few weeks than it is after several years. This reaction had been simply dismissed as "boredom", but no explanation was provided. Landy suggested that there are mechanism within individuals that help them maintain emotional equilibrium. Since satisfaction and dissatisfaction are, in part, emotional responses, these mechanism are thought to play a role in job satisfaction. Opponent-process refers to opposing processes for dealing with emotion. For example, if a person is very happy, there is physiological response opposing this emotional state and attempting to bring the person back to a neutral level. Extreme emotion (positive or negative) is seen as damaging to individuals. Physiological mechanism are designed to protect a person from these extreme states. Landy suggests that the reason people differ in job satisfaction is because they differ in terms of the stage of their protective physiological function. [Ref. 8: p. 535-545]

d. Two-Factor Theory

Herzberg, Mausner, and Synderman (1959) did individual interviews, asking subjects to describe when they felt very good or bad about their jobs. The interviews were content analyzed for common themes or ideas in the responses. This was done to determine:

- 1) What kinds of things were mentioned when people described the times they were very satisfied,
- 2) What kinds of things were mentioned when people described times

they were very dissatisfied,

3) Whether what was described in the two circumstances was different.

The authors found that descriptions of good times included such things as achievement, recognition, advancement, and responsibility. All relate to the content of a job, so they were called content factors. Descriptions of bad times were characterized by factors dealing with company policy, supervision, salary and working conditions. These factors all relate to the context of a person's job, and were therefore labeled context factors

Herzberg proposed two classes of work variables: satisfiers (content factors that result in satisfaction), and dissatisfiers (context factors producing dissatisfaction). Because the theory proposed two general classes of work factors, satisfiers and dissatisfiers, the theory has come to be known as Herzberg's two factor theory. Herzberg then went on to propose what is perhaps the most controversial aspect of his theory. He said that when a Job provides a lot of content factors, i.e., a sense of recognition, advancement, etc., the employee feel satisfied at work. When these factors are absent from a Job, i.e., there is no sense of recognition, advancement, etc., the employee will not be dissatisfied but feel neutral or indifferent. Alternatively, when a job provides a lot of context factors, i.e., a good salary, pleasant working conditions, etc., an employee will not feel satisfied but feel neutral or indifferent toward the Job. When these factors are absent from a job, i.e., the salary is poor, working conditions are unpleasant, etc., an employee will feel dissatisfied. Thus, with a high degree of reward satisfiers will result in satisfaction, and a low degree of reward will result in indifference. Conversely, with a high degree of reward, dissatisfiers will result in indifference, and a low degree of reward will result in dissatisfaction. [Ref. 2: p. 326]

2. The Measurement of job satisfaction

Surveys have been developed to measure job satisfaction, as they have been developed for other attitudes. Some have been used extensively. Others were developed for a single study. Some surveys measure global satisfaction, others facet satisfaction. Many studies of job satisfaction use questionnaires to understand the relationships between different variables and total satisfaction.

Smith, Kendell, and Hulin (1969) developed job Descriptive Index (JDI) to measure job satisfaction. The questionnaire measures five facets: satisfaction with work itself, supervision, pay, promotion, and co-workers. Each facet consists of 9 or 18 items. The employee indicates whether the item describes the Job or not. Each item has

a scale value indicating how descriptive it is of a satisfying Job. Five scale scores are tabulated that reflect satisfaction for each of the facets. The total score on the JDI has also been used to reflect overall job satisfaction.

Smith and Rollo (1974) found the JDI measured satisfaction equally well for blacks and whites. They also confirmed that it successfully measured different facets of satisfaction. Yeager (1981) suggested that the JDI may measure more than five facets. Some of the original scales seem to consist of multiple dimensions. For example, the supervision scale could be broken into satisfaction with the supervisor's ability/performance and interpersonal skills. [Ref. 2: p. 328]

Kunin (1955) developed the measure of job satisfaction using faces scale. It measures global job satisfaction. And, as opposed to words or phrases, the scale points are drawings of human face. A series of scale construction procedures were used to create equal scale intervals. The faces scale is a good measure of overall satisfaction and is widely applicable. Words are not used, so there is less ambiguity about the meaning of the scale points. The person simply checks the face that reflects how he or she feels about the job satisfaction in general. [Ref. 10: p. 70]

Weiss, Dawis, England, and Lofquist (1967) developed the measure of satisfaction that was The Minnesota Satisfaction Questionnaire (MSQ). Like the JDI, the MSQ also measures satisfaction with facets of job. Twenty are included, such as creativity, independence, supervision-human relations, supervision-technical, and working conditions. Each facet is composed of five items. The individual responds on a five-point scale ranging from "very satisfied" (5) to "very dissatisfied" (1). With 20 scales and 5 items per scale, the MSQ takes more time to complete than the JDI. [Ref. 2: p. 330]

3. Relationship between job satisfaction and life satisfaction

The interrelationship of job satisfaction and life satisfaction has long been an area of concern in the literature on job attitudes. Kabanoff (1980), Near, Rice and Hunt (1980) discussed the nature of the relationship between job and life satisfaction on the three hypotheses:

- a. That there is a positive relationship,
- b. That there is a negative relationship,
- c. That there is no relationship.

The first hypothesis known as as the generalized or spillover model suggests that satisfaction in one domain of person's life spills over into other areas. The

spillover model suggests that the causal flow is either from job to life satisfaction or from life to job satisfaction, but not both simultaneously. In contrast, the second hypothesis known as the compensation model argues that individuals who have jobs deficient in need fulfillment will compensate for this deficiency by seeking out challenging and interesting nonwork activities. Finally, the third hypothesis known as the segmentation model implies that the worlds of work and nonwork are psychologically separate. That is, there is an independence between the activities and feelings in the work and nonwork spheres of people's lives. [Ref. 12: p. 250]

Rice et al. (1978) have recently suggested that a mutual, interactive relationship may exist between job satisfaction and life satisfaction. That is to say, that job satisfaction and life satisfaction may be directly, as well as reciprocally related. (see Figure 1.1). This diagram indicates that life satisfaction is determined by marital status, self esteem, and locus of control, as well as by job satisfaction. job satisfaction is hypothesized to be the result of the job scope variables: autonomy, skill variety, feedback from the job, task identity, and task significance, as well as life satisfaction. The existence of a positive relationship between life and job satisfaction in either or both directions would be supportive of the spillover hypothesis in that satisfaction in one sphere leads to satisfaction in the other. The existence of negative job and life satisfaction relationship in either direction would lend credence to the compensation hypothesis and the absence of any relationships between live and job satisfaction would be consistent with the segmentation hypothesis.

Dubin (1956) proposed the concept of central life interest. He defined this as an expressed preference for behaving in a given locale. Some people see work as a central life interest. Dubin calls them job oriented. Such people should have a high evaluation of work and would score relatively high on satisfaction measures. Other individuals have central life interests other than work (church, family, or community). Dubin calls them non-job oriented. A smaller portion of this group should have strong feelings of job satisfaction. A third group may express no clear preference. They have a flexible focus central life interest. For this group we would expect a small relationship between central life interests and job satisfaction. [Ref. 13: p. 806-807]

Gechman and Wiener (1975) examined how job satisfaction contributes to overall life satisfaction and general mental health. They sampled elementary school teachers using a job satisfaction questionnaire and a self-report assessment of mental health. The correlation between job satisfaction and general mental health was .48.

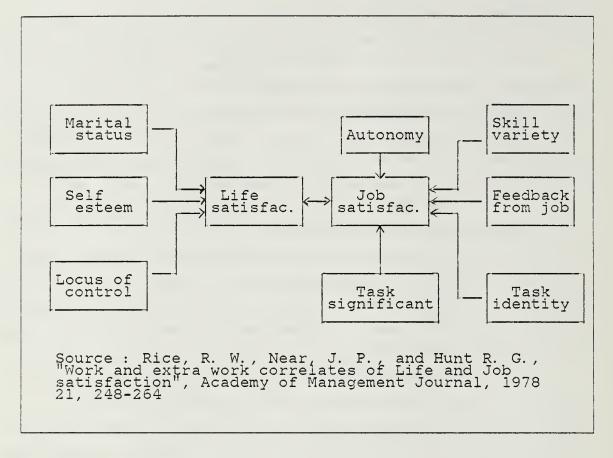


Figure 1.1 Structural model of the determinants of Job and Life satisfaction.

The authors were led to conclude that "positive feelings toward work role may reach out and carry over into other sectors of life"

London, Crandell, and Seals (1977) used national survey data to investigate how much job and leisure satisfaction contributed to the quality of life. The findings revealed that non-job related variables can be more important to a full life than job satisfaction for many subgroups of the population.

Orpen (1978) correlated measures of job and life satisfaction in a sample of first-line managers. The design of Orpen's study suggested some causal relationship between job and life satisfaction. He concluded that differences in job satisfaction cause differences in fulfillment of life outside the job. He also concluded that satisfaction in one area spills over into the other area. [Ref. 14: p. 530-532]

4. Relationship between job satisfaction and turnover

The relationship between job satisfaction and turnover is significant and consistent. Reviews of the literature on the relationship between employee turnover and job satisfaction have reported a consistent negative relationship.

Muchinsky and Tuttle (1979) summarized 39 studies of the relationship between satisfaction and turnover. In all but four the relationship was negative. It appears then that the more people dislike their jobs, the more likely they are to quit. The magnitude of the satisfaction-turnover relationship, on average, is about -.40. As an example of such work, Hulin (1966) matched clerical employees who quit with those who didn't via several demographic variables. Hulin obtained satisfaction measures for all employees before any quit. He found that the mean satisfaction score for those who eventually did quit was significantly lower than for those who stayed with the company. Thus, it appeared that turnover could be predicted on a group basis, though the data did not permit individual prediction. A year later Hulin (1968) repeated the study in the same company and got the same results. Changes in company practices meant to reduce turnover by improving satisfaction were also successful. [Ref. 5: p. 122-126]

Mobley (1977) proposed a model of employee turnover based on several hypothesized links between satisfaction and quitting. Such links include thinking of quitting, looking for another job, intending to quit (or stay). Mobley contended that feelings of dissatisfaction provoke thoughts of quitting, which in turn prompt the search for another job. The evaluation of the cost of quitting would include such considerations as loss of seniority, loss of vested benefits, number of dependents, and the like. If the costs of quitting are too high, the person may reevaluate the job (producing a change in satisfaction), think less about quitting, and use other responses like absence or passive behavior. If the costs are not too high, and the other job looks good, this will stimulate the intention to quit, followed by actual quitting. If the alternative job is not good, the situation may stimulate the intention to stay. Mobley's model was a major step forward in thinking of the process from Job dissatisfaction to turnover, instead of repeatedly assessing the direct relationship between satisfaction and turnover. [Ref. 9: p. 408]

Mobley, Horner, and Hollingsworth (1978) tested the model, which is presented in Figure 1.2. They measured the satisfaction of 203 full-time hospital employees. The authors also obtained measures of the other variables in the model

such as age, thinking of quit, intention to search another job, intention to quit or stay and probability finding acceptance alternative. turnover data were collected for 47 weeks after collection of the satisfaction data. Using correlation and multiple regression analysis, Mobley et al. tried to predict turnover from the variables in the model. Overall job satisfaction was found to correlate -.54 with thinking of quitting, -.54 with intention to search, -.49 with intention to quit/stay, and -.21 with actual turnover. When all the variables in the model as shown in figure 1-2 were combined to form a multiple regression equation, the multiple correlation for intention to quit was .75, while the multiple correlation for actual quitting was .51. Mobley et al. were able to demonstrate that cognitive and behavioral phenomena intervene between feelings of job satisfaction and actual quitting. Clearly, employee turnover is predicated on more than feelings of unhappiness about a job. [Ref. 10: p. 408-414]

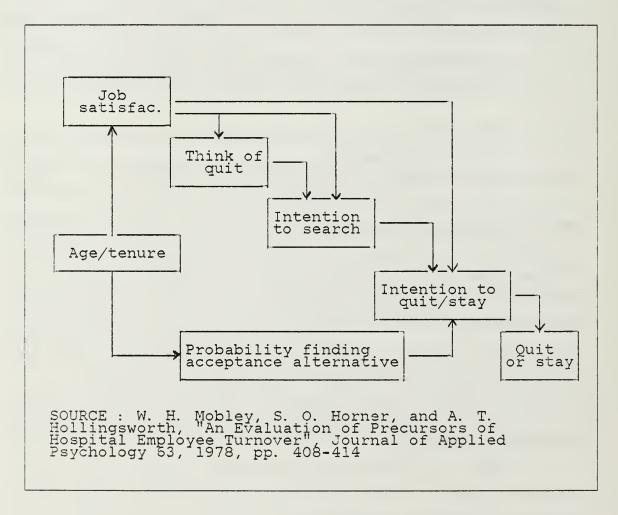


Figure 1.2 A Representation of the Employee Turnover Process.

5. Relationship between job satisfaction and personal variables

Several studies dealt with the relationship between job satisfaction and such personal variables as age, race, and gender. The results are only moderately consistent. That is, we can't say that males are always found to be more satisfied than females, or whites more than blacks. These are some findings:

a. Age

Previous research has established that age and tenure are negatively associated with turnover. Hulin and Smith (1965), Gibson and Klein (1970) suggest that global satisfaction increases with age, especially for males. Thus, the most dissatisfied workers are the youngest, and the most satisfied are those nearing retirement. Glenn, Taylor, and Weaver (1977) reported similar findings for females. This is logical because long tenure employees clearly like that jobs or would have quit. The relationship between job satisfaction and age is not so uniform. Hunt and Saul (1975) reported that satisfaction with work, supervision, working conditions, and coworkers increased with age in a sample of males, but the only significant positive relationship for females was for satisfaction with work. Satisfaction with promotion opportunities was negatively related to age for both sexes. There was no relationship between age and satisfaction with pay for males, and a negative relationship was found for females. Muchinsky (1978) reported somewhat different results. He found that older employees were least satisfied on four of the five scales of the supervision, pay, promotion, and co-workers. Both studies did report similar relationships between satisfaction with promotion opportunities and age. [Ref. 2: p. 332]

b. Race

Research on job satisfaction and race is characterized by conflicting results. Some studies have reported little or no differences between racial groups in reported job satisfaction (Jones et al., 1977; Katzell, Ewen and Korman, 1974; Weaver, 1977) Some of the early studies compared blacks and whites in terms of which needs were satisfied on the job. Slocum and Strawser (1972) reported that black certified public accountants were less satisfied than their white counterparts along a number of dimensions, including needs for esteem, autonomy, self-actualization, and compensation. Similar results were reported by Bloom and Barry (1967) and O'Reilly and Roberts (1973). While Brenner and Fernsten (1977) found that blacks have higher satisfaction than whites in comparable jobs. [Ref. 15: p. 300]

Jones, James, Bruni, and Sells (1977) suggested that black-white differences in satisfaction are not as important as understanding why they occur. Only one study (Moch, 1980) systematically dealt with explanations. Moch investigated two potential determinants of satisfaction: structural and cultural. Structural explanations state that systematic differences in the way employees are treated account for racial differences in satisfaction. An example would be black employees having fewer promotion opportunities. Cultural explanations attribute satisfaction differences to beliefs, values, or psychological states. More research should be done on why such differences do (or do not) occur. If structural factors are a cause of differential satisfaction, an organization would have the power to alter these inequities. However, if cultural factors are a major cause of satisfaction differences, we have few options in improving the situation. The effect of years of discrimination can not be erased quickly. As Moch stated, it may take a long time to reach equity in satisfaction among different races. Research on the causes of racial effects helps in identifying what can be done to improve satisfaction as well as identifying factors that cannot be controlled. [Ref. 16: p. 6]

There are a number of explanations of race-related differences in job satisfaction, that are common in the literature. Cultural explanations attribute the differences to the values, beliefs and psychological states that contribute to how members of different subgroups will respond to their work experience (Alper, 1975; Bloom and Barry, 1967; Jones et al., 1977). An analog to this theory is the concept of frames of reference. Different subcultures develop different frames of reference which influences the individual's perceptions of the job and also affects which aspects of the job will be satisfying or dissatisfying. [Ref. 15: p. 299]

Structural explanations of varying job satisfaction by race maintain that it is a function of how the members of different racial groups are treated by the organization, by supervisors and co-workers. Some studies have identified fewer promotion opportunities for black employees as the reason for their lower reported satisfaction (Smith et al., 1974; Brown and Ford, 1977; Fields and Freeman, 1972). Supervisor bias exhibited in performance evaluations has also been credited with causing differential satisfaction levels (Hamner, Kim Baird and Bigoness, 1974; Katz and Greenbaum, 1963; Katz, Roberts, and Robinson, 1965). [Ref. 15: p. 300]

Another possible explanation for racial differences in job satisfaction derives from differences in individual motivational structure. Arvey and Musio (1974)

found that extrinsic rewards (eg. high pay, security, etc.) were more important to culturally disadvantaged employees while advantaged employees placed more emphasis on intrinsic factors. [Ref. 16: p. 6]

c. Gender

Research on the relationship between job satisfaction and gender is inconsistent. Some studies report that males are more satisfied than females, some report the opposite, yet others report no differences. Hulin and Smith (1964) think sex differences are due to differences in education, pay, and tenure. Males and females are equally satisfied with their jobs when these factors are controlled for. Sauser and York (1978) found that males were more satisfied in global terms and also with regard to such facets as promotion, supervision, and work. When differences between the sexes in education, pay, and tenure were considered, there were no significant differences between males and females. The only significant findings was that women were more satisfied than men with pay. It appears that male/female differences per se do not account for much variance in job satisfaction. Rather it is other variables (such as education) that are correlated with gender which best explain male/female differences in job satisfaction. Several studies have tried to find the sources of job satisfaction for men and women.

Andrisani and Shapiro (1978) reported that females derived satisfaction from both content and context factors. Results were similar to studies that tested the validity of Herzberg's theory with men. It would be a mistake, however, to conclude that women and men are equal in their feelings about work. Traditionally, married males have been the principal wage earners in a family, and females have had the main responsibility for child rearing. As more married woman return to work, they experience role conflict that influences their feeling about a job. [Ref. 18: p. 15-34]

6. Relationship between job satisfaction and individual characteristics

Porter and Steers (1983) pointed out that an individual would be satisfied if the individual's perceived outcome is the same as what the individual felt he or she should receive. The individual would received be dissatisfied if the outcome he or she perceived to receive was below what the individual felt he or she should receive. Also, the perceived amount of what should be received was a function of what others received.

The Porter and Steers model also indicated satisfaction was a function of individual characteristics and job characteristics. They claimed that a higher level of job

input such as an individual characteristics of skill, experience, age, training and education, resulted in a higher perceived amount that should be received. Therefore, people who have high job inputs must receive a greater amount of a desired outcome than people with low inputs or they will be dissatisfied. The model also indicated that individuals with jobs more demanding in terms of such things as responsibility, time span, and level of difficulty, would perceive more of a particular outcome. An outcome could be money, recognition, promotion, control over the work performed, or interaction with co-workers. [Ref. 19: p. 332-338]

7. Relationship between job satisfaction and working conditions

Many researchers have been interested in the relationship between people's feeling about their job and working conditions. Ronen (1977) examined the job-facet satisfaction of paid and unpaid industrial workers (kibbuttz). A kibbutz is an Israel voluntary collective settlement operating as a single economic unit and governed by a general assembly composed of all their members. Kibbutz members' needs are provided on an egalitarian basis and include food, clothing, housing, medical care, recreation, and equal pocket money, all of which are based on need and not on the level or style of their work or participation. Ronen administered the JDI to a sample of 135 unpaid kibbutz workers and 187 paid city workers. The pay scale of the JDI was not given to the kibbutz workers. Ronen wanted to see whether the general pattern of job-facet satisfaction scores was comparable for the two groups. Ronen found that the most importance facet (strongest correlate with overall job satisfaction) was satisfaction with supervision, followed by work, promotions, and co-workers. Ronen concluded that the nonmonetary aspects of satisfaction could be distinguished as clearly for unpaid as for paid workers, and that nonmonetary aspects could be studied independent of attitude toward pay. [Ref. 2: p. 336]

8. Relationship between job satisfaction and expectations

Mowday, Porter, and Steers found that the individual had certain expectations about his or her job depending on the individual characteristics and the available information about the job. Once the individual had been employed for a period of time, the employee developed attitudes towards his or her expectations, and how the current Job compared with the job opportunities foregone. If the employee developed negative attitudes towards his or her job, then he or she began to consider ways of changing the situation. One way to change the situation was to quit the job, but that decision was weighed against the alternative jobs available, and other non-job

influences to stay or leave. If there were other jobs available and the non-job influences weighed in favor of leaving, then the employee left. [Ref. 20: p. 116-126]

II. DATA AND METHODOLOGY

A. DATA

The data used in this research was the 1985 DoD Survey of Officer and Enlisted Personnel which conducted for the Office of the Assistant Secretary of Defence (Force Management and Personnel) by the Defense Manpower Data Center (DMDC). This survey is one of two separate, but interrelated, surveys conducted in 1985:

- 1. The 1985 DoD Survey of Officer and Enlisted Personnel a world-wide survey of approximately 132,000 active-duty military members;
- 2. The 1985 DoD Survey of Military Spouses a survey of the spouses of all married members selected for the member survey.

Jointly, the surveys are referred to as the 1985 Dod Surveys of Officer and Enlisted Personnel and Military Spouses. The objective of these surveys is the systematic examination of policy-sensitive information about the military life cycle. The military life cycle includes both reserve and active force enlistment decisions, career orientations, responses to policies that affect military members and their households, and decisions to leave the military.

As in all the previous DoD-wide Surveys, the basic stratification variable for the 1985 DoD Survey is service. Within each service, the enlisted samples are stratified by length of service and gender. Officers, females, and Marine Corps personnel were sampled at a higher rate in order provide sufficient sample size to permit detailed analyses of these groups. The structure used was very similar to that used for the 1978-1979 DoD Survey in order to facilitate compared in such areas of personnel management as reenlistment intentions. The final sample sizes were based on compromise between the number of questionnaires needed for detailed analyses of special small populations and budgetary constraints. [Ref. 21: p. 2-5]

The data utilized in this thesis were limited to male enlistees in the first term of service. Individuals whose ethnic classification was other than Black, White, or Hispanic were excluded from the sample because their number was insufficient to perform any meaningful statistical analysis on their survey responses.

B. CAUSAL MODEL, FACTOR CATEGORIES, AND CANDIDATE VARIABLES.

1. Causal model and factor categories

A causal model of job satisfaction is presented in Figure 2.1. As indicated in the literature review, earlier studies indicate that factors considered to be determinant of job Satisfaction can be categorized as:

- a. Personnel background and individual characteristics (Vroom, Porter and Steers, Hopkins, Scarpello and Campbell)
- b. Satisfaction with working conditions and living environments (Ronen, Miller and Terborg, Hopkins, Herzberg et. al, David F. Caldwell et.al)
- c. Expectations (Vroom, Mowday, Porter and Steers, Hopkins, McCormick and Ilgen, Locke, E. A.)

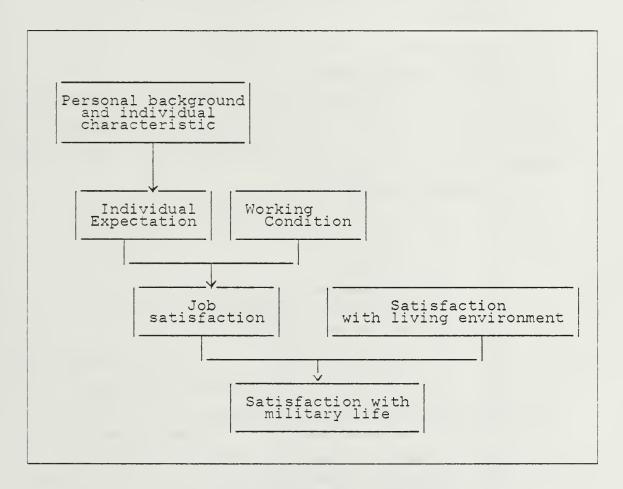


Figure 2.1 Relationship between life satisfaction and factors considered to be determinant of satisfaction with military life...

The literature on job satisfaction revealed that satisfaction with military life (O110E106) may serve as a good indicator of job satisfaction. The DOD 1985 Survey of Officer and Enlisted Personnel used a single seven point scale measurement of satisfaction. Respondents were asked how satisfied they were with life in the military. The questions were: "Now, taking all things together, how satisfied are you with the military as a way of life?" Seven responses were possible, ranging from "very dissatisfied" to "very satisfied"

- 1 = Very dissatisfied
- 2 = Dissatisfied
- 3 = Somewhat dissatisfied
- 4 = Neither dissatisfied / satisfied
- 5 = Somewhat satisfied
- 6 = Satisfied
- 7 = Very satisfied

2. Candidate explanatory variables

This section identifies the questions in the DOD 1985 Survey of Officers and Enlisted Personnel which provide variables considered to be determinants of job satisfaction (independent variables). The following candidate variables will be taken as measuring determinants of job satisfaction:

a. Personal background and individual characteristics

- (1) Age (036 E35).
- (2) Where born, State (037 E36).
- (3) Race (O39 E38).
- (4) Current education (E42).
- (5) Current high school certificate (E43).
- (6) Current marital status (051 E48).
- (7) Marital status at entry (050 E47).
- (8) Mother's education (O49 E46A).
- (9) Father's education (O49 E46B).
- (10) Number of dependents (067 E64).
 - (11) Months of active service (06 E6).
 - (12) Months at current location (O13 E12).

b. Satisfaction with working conditions

- (1) Personal freedom (O109 105A).
- (2) Acquaintance Friendships (O109 105B).
- (3) Workgroup/Co-worker (O109 105C).

- (4) Assignment stability (0109 105D).
- (5) Pay and Allowance (0109 105E).
- (6) Environment for family (0109 105F).
- (7) Frequency of moves (0109 105G).
- (8) Retirement benefits (0109 105H).
- (9) Opportunity to serve country (O109 105I).
- (10) Satisfaction with current job (O109 105J).
- (11) Promotion opportunities (0109 105K).
- (12) Job-training/In-service education (O109 105L).
- (13) Job security (0109 105M).
- (14) Work/environmental conditions (0109 105N).
- (15) Post service education benefits (0109 1050).
- (16) Medical care (0109 105P).
- (17) Dental care (0109 105Q).
- (18) Commissary service (0109 105R).

c. Feeling about Living environments

- (1) Climate (020 E19A). -
- (2) Distance to population (O20 E19B). -
- (3) Family ability to handle cost (O20 E19C).
- (4) Availability of military housing (O20 E19D).
- (5) Quality of military housing (O20 E19E).
- (6) Availability of civilian housing (O20 E19F).
- (7) Availability of goods; services at post (O20 E19G). —
- (8) Recreational centers (O20 E19H). -
- (9) Local attitudes towards military family (O20 E19I). -
- (10) Avail. fed. employ for spouse; depend. (O20 E19J).
- (11) Avail. other civilian employ spouse/depend. (O20 E19K).
- (12) Quality of schools (O20 E19L).
- (13) Quality of medical care (O20 E19M). -

d. Expectations

- (1) Life in military about what expected (O108 104A).
- (2) Military benefits in future (O108 104B).
- (3) Military benefits keep up with inflation (0108 104C).

C. METHODOLOGY

1. Prepare data for analysis

This section will examine the techniques to prepare the data for analysis:

a. Dummy variables.

Some of the candidate explanatory variables are nominal. Since the numbers assigned to categories of a nominal scale are not assumed to have an order and unit of measurement, they can't be treated as "scores" as they would be in conventional regression analysis. Dummy variables are created by treating each

category of a nominal variable as a separate variable and assigning a zero to indicate the absence of that attribute and a one to indicate the presence. For example married is dummy variable with currently married equals to one and single, divorced or separated equal to zero.

b. Assign missing value

Very often, the data file lacks complete information on some cases for some variables. Interviewers can forget to ask a question or record an answer, respondents can refuse to answer, data can be entered incorrectly, and so forth. Missing does not always mean the same as unknown or absent. Responses which were not answered from the 1985 DoD Survey are recoded to equal -1, -3, and -8 to identify a missing value.

2. Bivariate Analysis

In order to determine the effect of race to job satisfaction and the effect of race on those factors considered to be determinants of job satisfaction, a bivariate analysis will be conducted. The bivariate analysis seeks to determine if there is a significant difference in job satisfaction by race and if there is a significant difference in factors thought to be determinants of job satisfaction by race. The statistically significant differences in response to certain questions by race is measured by chi-square test for discrete variables or test of means for continuous variables. The bivariate analysis will be conducted in the satisfaction with military life variable and in four groups of variables thought to be determinants of job satisfaction: personal background and individual characteristics, working conditions, living environments, and expectations.

3. Factor Analysis

Factor analysis will be conducted to reduce the number of independent variables and to reduce multicolinearity between these variables. The groups of variables under living environments and working conditions will be analyzed utilizing the factor analysis procedure in SPSSX. The factor analysis method utilized is principal components which transforms the variables into a new set of composite variables that are uncorrelated to each other. The composite variables are derived as the best linear combination of variables (ie. that combination which will explain more variance in the data as a whole, than any other combination of variables). The first principal-component explains the most variance in the data. The second principal-component is the second best linear combination of variables and is uncorrelated to the

first. Therefore, the second component actually explains the most residual variance after the effect of the first component is taken into account. Subsequent components explain the most residual variance remaining after the effect of the preceding components has been removed. [Ref. 28: p.470]

Once the original variables are reduced into factors, the factor are rotated into terminal factors which are easier to enterpret. There are many statistically equivalent ways to express the underlying relationships in a given set of data. This analysis used the varimax method of rotation. Varimax concentrates on simplifying the columns of the factor matrix. This is equivalent to maximizing the variance of the squared loadings in each column. [Ref. 28: p. 472]

4. Regression Analysis

The regression model consist of a single dependent variable to measure job satisfaction. The independent variables are the factor scores generated in the factor analysis and selected variables. Regressions will be run against satisfaction with military life for all races, separately for each race and branches of service. Chow test will be conducted for pairwise comparisons of the racial and branch of service groups. A block entry form of regression will be used which enters all the variables into the model and calculates the significance of each variable's contribution to the model as shown in Figure 2.2 The final output of the regression analysis indicate the effect of the variables in the model, the t statistic for each variable, and the significance of the t statistic.

Satisfaction with military life = f((Personal background and individual characteristic, working conditions, living environments, expectations)

Figure 2.2 Satisfaction With Military Life's Regression Equation.

III. ANALYSIS

A. BIVARIATE ANALYSIS

1. Analysis the results

The bivariate analysis is conducted in the satisfaction with military life variable and in the four groups of variables thought to be determinants of job satisfaction: personal background and individual characteristics, satisfaction with working conditions, satisfaction with living environments and expectations.

Table 1 shows the mean response by blacks, whites, and hispanics on the satisfaction with military life question.

The average feeling of satisfaction with military life was found to be significantly different by race. The black and hispanic respondents reported that their average feeling of satisfaction with military life was statistically higher than the white respondents.

TABLE 1
SATISFACTION WITH MILITARY LIFE BY RACE

	prob value	mean		
		white	black	hisp
Sat. with mil. life N (number of cases)	.014	3.9 8549	4.1 1709	4.0 946
Note: 1 = Very dissatisfi 2 = Dissatisfied 3 = Somewhat dissat 4 = Neither satisfi dissatisfied	5 = Some 6 = Sat: 7 = Ver	ewhat sa isfied y satisf:	tisfied	

Table 2 shows the results of the bivariate analysis conducted on the variables concerned with the personal background and individual characteristics. The probability values (the likelihood of indicated difference occurring by chance) are given for each

variable using either chi-square tests or tests of means. The average age and the time at current location were found not to be significantly different by race, while average current education, parent's education, number of dependents, and length of service were found to be significantly different by race.

TABLE 2
PERSONAL BACKGROUND AND INDIVIDUAL CHARACTERISTIC
BY RACE

	prob value _	mean		
		white	black	hisp
Age Current education Mother's education Father's education Number of dependents Months of service Months at current loc N (average of samples)	. 288 . 001 . 001 . 001 . 001 . 047 . 107	21. 7 12. 3 12. 5 12. 7 1. 3 25. 7 16. 6 8055	21.7 12.4 12.4 12.0 1.5 24.9 17.0	21.8 12.4 12.2 11.7 1.4 25.7 17.1
	prob value	% wit	th attrib	oute
	,	white	black	hisp
Married at entry Currently married High school graduate Born in USA N (average of samples)	.001 .085 .138 .001	11.9 31.9 97.7 97.1 8224	6.9 29.3 98.4 95.7 1625	12.1 32.5 97.5 73.8 922

The current education of the respondents and their parent's education were measured in continuous scale of 1 (elementary school-first grade) to 20 (college more than 3 years). The average current education that respondents reported was statistically higher for the blacks than it was for whites and hispanics. Hispanic respondents indicated that their parent's education was on average lower than it was for blacks and whites. Black respondents reported more dependents than whites and hispanics, while the length of service that respondents reported was slightly higher for the hispanics than it were for whites and blacks.

The Marital status of military members will affect service members attitude toward the service especially in areas such as military rotation policy, work and deployment schedules. It may also affect an individual's decision whether to remain on the service or leave. The Marital status at entry and currently married variables are dummy variable where married equals one and not married equal zero. The Marital status at entry was found to be significantly different by race, while the currently marital status was found not to be significantly different by race. The respondents reported that 11.9% whites, 6.86% blacks, and 12.12% hispanics were married when they entered the military.

The current high school certificate variable is dummy variable where high school graduate equals one and non high school graduate equal zero. This variable was not significantly different by race. Where born variable is dummy variable where born in USA equal one and not born in USA equal zero. This variable was significantly different by race. 97% of white, 95% black and 73% hispanic respondents reported were born in USA.

Table 3 shows the results of the bivariate analysis conducted on the variables concerned with satisfaction with working conditions. These variables were measured on a likert scale of 1 (very satisfied) and 5 (very dissatisfied).

Personal freedom, pay and allowances, retirement benefits, promotion opportunities, job training and environmental conditions were found not to be significantly different by race. while friendships, co-workers, assignment stability, family environment, frequency of moves, serve country, happy with job, job security, VEAP benefit, medical care, dental care and commissary services variables were significantly different by race.

White respondents feel more satisfied with their friendships, co-workers and feelings about assignment stability than blacks and hispanics, while black and hispanic respondents reported more satisfied with their family environment than whites. White and hispanic respondents reported more satisfied in opportunity to serve one's country and their feeling about their current job than blacks. White respondents feel more satisfied in job security than blacks and hispanics. Black respondents reported more satisfaction in VEAP benefit, medical care, dental care and commissary services than white and hispanic respondents.

Table 4 shows the results of the bivariate analysis conducted on the variables concerned with satisfaction with living environments. Respondents were asked their feeling about characteristics of their current location. These variables were measured on a likert scale of 1 (excellent) to 5 (very poor).

TABLE 3 SATISFACTION WITH WORKING CONDITIONS BY RACE

	prob value	mean		
		white	black	hisp
Personal freedom Friendships Co-worker Stability Pay and allowance Family environment Moving Retirement benefit Serve country Happy with job Promotions Job-training Job security Environment condition VEAP benefit Medical care Dental care Commissary services N (average of samples)	. 809 . 0001 . 0001 . 121 . 0042 . 2855 . 0001 . 1921 . 0752 . 0001 . 0001	3.25.83.0990.8293975.55 22.233.222.33222.33222.332222.3322222222	336929982939596323 4	236929080839496443 522223232223222222222222222222222222

Note:

= neither satisfied / dissatisfied = dissatisfied

le very satisfied 2 = satisfied 3 = neither satisfied 4 = dissatisfied 5 = very dissatisfied = very dissatisfied

Respondents reported their feelings about climate, distance to population center, military housing quality, goods and services, attitudes of locals, federal job for spouse, civilian employment, school and medical care variables were significantly different by race. Cost of living, military housing availability, civilian housing and recreation variables were not significantly different by race. White respondents reported a better average feeling about the climate, distance to population centers and Availability of other civilian employment for spouse or dependents than blacks and hispanics. Black respondents reported a better average feeling about the quality of military housing, availability of goods and services, attitudes of local residents toward military families and quality of medical care than white and hispanic respondents. Hispanic respondents reported a better average feeling about the availability of Federal

TABLE 4
FEELING ABOUT LIVING ENVIRONMENTS BY RACE

	prob value		mean	
	•	white	black	hisp
Climate Distance to pop center Cost of living Mil-housing avail Mil-housing quality Civilian housing Goods and service Recreation Attitudes of local Fed. job for spouse Civilian employment School Medical care N (average of samples)	.001 .04010 .0015 .00920 .0015 .00015 .0015	2.55962966296616273 33.223332225563	2.68950955996463 2223322233322 106	2
Note: 1 = excellent 2 = good 3 = fair 4 = poor 5 = very poor				

employment for spouse or dependents and quality of schools for dependents than black and white respondents.

Table 5 shows the results of the bivariate analysis conducted on the variables concerned with life in the military as expected. These variables were measured in five point scale of agreement, I (strongly agree) to 5 (strongly disagree). White respondents reported more agreement than black and hispanic respondents with the statements of life in the military is about what I expected it to be, military personnel in the future will not have as good retirement benefits as I have now and my military pay and benefits will not keep up with inflation variables.

2. Summary of the results

The findings from the bivariate analysis were that:

a. Satisfaction with military life

Satisfaction with military life variable was significantly different by race. The Black and hispanic respondents reported that their average feeling of satisfaction with military life were higher than the White respondents.

TABLE 5 MILITARY LIFE AS EXPECTED BY RACE

	prob value	mean		
		white	black	hisp
Life as expected Retirement benefit Inflation N (average of samples)	.001 .001 .002	3.0 2.5 2.0 8531	3. 2 2. 7 2. 1 1703	3.1 2.7 2.1 940

: = Strongly agree = Agree

ther agree / disagree

ongly disagree

b. Personal background and individual characteristic

Age and current high school certificate variables were not significantly different by race. This result is, in large part, because of the selection process. Individuals eligible for a commission as a military enlistee must be of a certain age and most require high school certificate. Current education, parent's education, number of dependents, months of service, marital status at entry, and where were born variables were significantly different by race.

c. Satisfaction with working conditions

Personal freedom, way and allowance, retirement benefit, promotion, job training and environmental condition variables were not significantly different by race. Friendships, co-workers, stability, family environment, serve country, happy with job, job security, Veap benefit, medical care, dental care and commissary services variables were significantly different by race.

d. Feelings about living environments

Cost of living, military housing availability, civilian housing and recreation were not significantly different by race. Feeling about climate, distance to population center, military housing quality, goods and service, attitude of locals, federal job for spouse, civilian employment, school and medical care were significantly different by race.

e. Expectations

Life in the military as expected, military personnel retirement benefits and military pay will not keep up with inflation variables were significantly different by race.

B. FACTOR ANALYSIS

1. Satisfaction with working conditions

Factor analysis was conducted on sixteen variables under satisfaction with working conditions to reduce the number of independent variables into two factors and reduce multicolinearity between them. As in the previous section, the data was analyzed separately for the blacks, hispanics, and whites.

Table 6 shows the factor matrix for the black respondents. The numbers in the rows are the loadings which represent regression coefficients of the factors that describe a particular variable. Some of the variables load significantly on only one factor (eg. personal freedom, friendships, workgroup/co-worker, assignment stability, pay and allowance, environment for family, frequency of moves, retirement benefits, opportunity to serve country, promotion opportunities, job-training, job security and environmental conditions). While others may load moderately on two factors (eg. satisfaction with current job, education benefits, medical care, dental care and commissary service). The variables in factor one were given a new name as job characteristic and the variables in factor two as environment and benefits. These two variables will be used as independent variables in regression analysis.

The eigenvalue of a factor is a measure of the relative importance of that factor. The sum of the eigenvalues equals the amount of the total variance that exists in the variables (total variance in this case is sixteen because sixteen variables were included in the analysis). The eigenvalue for factor 1 (job characteristic) was 5.77 explaining 32% of the total variance in the variables. The eigenvalue for factor 2 (environment and benefits) was 1.61 explaining 8.9% of the variance.

Table 7 is the factor matrix for the hispanic male enlistees. Job characteristic and environment and benefits variables for the hispanic enlistees is almost the same as job characteristic and environment and benefits variable for the black enlistees. The differences are in the order of the loadings and that the satisfaction with current job and education benefit variables loaded moderately between job characteristic and environment and benefits for the black enlistees but loaded most heavily on job

TABLE 6
FACTOR SCORE OF WORKING CONDITIONS FOR BLACK MALE ENLISTEES

	Facl	Fac 2
VARIABLE Personal freedom Friendships Workgroup/Co-worker Assignment stability Pay and Allowance Frequency of moves Retirement benefits Sat. with current job Promotion opportunity Job-training Job security Environmental cond. Education benefits Medical care Dental care	(Job char.) .579 .55196 .56373 .4429 .559613 .66377157	351 . 301 . 596 . 664
Medical care	.579	. 596

TABLE 7 FACTOR SCORE OF WORKING CONDITIONS FOR HISP. MALE ENLISTEES

	Fac 1	fac 2
VARIABLE Personal freedom Friendships Workgroup/Co-worker Assignment stability Pay and Allowance Frequency of moves Retirement benefits Sat. with current job Promotion opportunity Job-training Job security Environmental cond. Education benefits Medical care Dental care Commissary service	(Job char.) .647 .558844 .55886441 .663333447 .55492 .55492	(Env. & benf.) . 649 . 705 . 410

TABLE 8

FACTOR SCORE OF WORKING CONDITIONS FOR WHITE MALE ENLISTEES

Facl	Fac 2
(Job char.)	(Env. & benf.)
.605 .462 .541 .613 .588	- . 336
. 490 . 6239 . 5335 . 582	- . 356
. 684 . 405 . 533 . 477 . 441	.324 .611 .632 .422
	(Job char.) .605 .4641 .5613 .473 .490 .6335 .4924 .5538 .6885 .5884 .4933 .477

characteristic for the hispanic enlistees. The eigenvalue of job characteristic was 6.359 and explaining 35.3% of the total variance in the variables. The eigenvalue of environment and benefits was 1.487, explains an additional 8.3% of the variance.

Table 8 is the factor matrix for the white male enlistees. Job characteristic and environment and benefits variable of the white enlistees is also almost the same as both job characteristic and environment and benefits of the black and hispanic enlistees. As for the black enlistees, satisfaction with current job, education benefits, medical care, dental care and commissary service variables are loaded moderately between job characteristic and environment and benefits. The differences are in the factor loadings and that co-workers variable loaded moderately between job characteristic and environment & benefits for the white, but loaded most heavily on job characteristic for the black enlistees. The eigenvalue of job characteristic of white was 5.394 and explaining 30% of the total variance. The eigenvalue of environment and benefits was 1.566 and explains an additional 8.7% of the variance.

2. Satisfaction with living environments

Six of the thirteen candidate variables under satisfaction with living environments were dropped because of too many missing values. These variables are:

housing, availability of civilian housing, availability of federal employ for spouse and availability of other civilian employ for spouse. Factor analysis was conducted on the remaining seven variables. The data was analyzed separately for the black, hispanic and white enlistees. These variables were reduced into two factors. Variables in factor 1 was called living conditions and variables in factor 2 was called health. These new variables will also be used as independent variables in the regression analysis.

Table 9, 10, and 11 show the results of the factor analysis for black, hispanic and white enlistees.

TABLE 9
FACTOR SCORE OF LIVING ENVIRONMENTS FOR BLACK MALE ENLISTEES

	Fac 1	Fac 2
VARIABLE	(Liv.cond.)	(Health)
Recreational centers Goods & services avail. Medical care of avail. Distance to pop. center Residence climate Attitudes of locals Medical care of quality	.725 .711 .661 .550 .545 .528 .491	.501 508 322 .680

TABLE 10
FACTOR SCORE OF LIVING ENVIRONMENTS FOR HISP. MALE ENLISTEES

	Fac 1	Fac 2
VARIABLE	(Liv.cond.)	(Health)
Recreational centers Goods & services avail. Medical care of avail. Distance to pop. center Residence climate Attitudes of locals	.770 .723 .636 .592 .614	. 555 - . 367
Medical care of quality	. 396	. 791

TABLE 11
FACTOR SCORE OF LIVING ENVIRONMENTS FOR WHITE MALE ENLISTEES

	Fac 1	Fac 2
VARIABLE	(Liv. cond.)	(Health)
Recreational centers Goods & services avail. Medical care of avail. Distance to pop. center Residence climate Attitudes of locals Medical care of quality	.762 .7633 .5555 .5534 .394	. 472 424 418 . 720

The eigenvalue for factor 1 (living conditions) of the black enlistees was 2.581 explaining 37% of the total variance (total variance in this case is seven because seven variables were included in the analysis). The eigenvalue for hispanic enlistees was 2.606 explaining 37.2% of the total variance, while the eigenvalue for factor 1 of the white enlistees was 2.511 explaining 35.9% of the total variance.

The eigenvalue for factor 2 (health) of the blacks was 1.121 which explains an additional 16% of the variance. For the hispanics, it was 1.199 which explains an additional 17.1% and for the whites it was 1.147 which explains an additional 16.4%.

C. REGRESSION ANALYSIS

Regression analysis was conducted with satisfaction with military life as the dependent variable and personal background and individual characteristic variables (age, where born, current education, marital status at entry, mother's and father's education, number of dependents, months of active duty, time at current location), working conditions variables (job characteristic, environment and benefits), living environments variables (living conditions and health) and expectations variables (life in military about what expected, military benefits in future and military benefits keep up with inflation) as independent variables as well as dummy variables for race and branch of service. Regression analysis was also conducted separately for the black, hispanic and white enlistees, and was also undertaken separately for the Army, Navy, Marine Corps and Air Force.

The results of the regression analysis indicated that not all of the independent variables had a significant effect on the determination of satisfaction with military life, and the effect of the dummy variables for branch of service varied by race.

	ALL	BLACK	HISP	WHITE
VARIABLE	BETA sig.T	BETA sig.T	BETA sig.T	BETA sig.T
Age Where born Education Months at loc. Marital stat. Mother's educ. Months of serv Number of dep. Life as expec. Ret. benefit Inflation Living cond. Health Job char. Env. & benft. Navy Marine Air Force Black Hispanic	.01 .02 .01 .02 .04 .04 .03 .03 .03 .03 .02 .04 .03 .04 .03 .04 .04 .03 .04 .04 .05 .06 .06 .07 .08 .09 .09 .09 .09 .09 .09 .09 .09 .09 .09	.04 .09 05 02 .01 03 .05 19 01 .06 01 03 51 22 09 02	04 .01 03 .02 .01 .02 .02 05 .03 27 .09 03 04 08 51 28 14 08 02	01 .01 .01 01 .02 03 .04 22 02 .06 03 03 04 22 02 03 04 02 03 04 03 03 04 05 05 05 05 05 05 05 05
No. of cases R SQUARE	6042 .518	587 .492	381 .535	4886 .523

Tables 12 and 13 shows the Beta coefficients and their significance for the regression analyses for all races and branches of service, separately for the blacks, hispanics, whites, the Army, Navy, Marine Corps and Air Force. The Beta coefficients are the coefficient estimates from a regression in which the variables have been standardized, and can be interpreted as the change in the dependent variable measured in standard deviations, resulting from a one standard deviation change in the

Significance level at .01 Significance level at .05 Significance level at .10

TABLE 13
REGRESSION ANALYSIS RESULTS BY BRANCH OF SERVICE

	A	RMY	NAVY	AM	.R.	A.F	•
VARIABLE	BETA si	g.T BET	A sig.T	BETA s	ig.T	BETA sig	ſ.T
Age Where born Education Months at loc. Marital stat. Mother's educ. Father's educ. Months of serv. Number of dep. Life as expec. Ret. benefit Inflation Living cond. Health Job char. Env. & benft. Black Hispanic	02 .08 03 05 49 17		01 03 02 02 01 01 03 02 26 *** 01 *** 01 48 ***	01 .03 .01 02 .03 .01 04 .03 23 .01 05 07 02 46 24	*	.01 .01 02 02 .01 .03 02 03 .04 21 01 .04 02 05 001	* ** ** ** ** ** ** ** ** **
No. of cases R SQUARE	1351 .502		1408 .523		170 197		313 508

independent variables. The Beta coefficient is a measure of the relative strength of the independent variables in affecting the dependent variable. [Ref. 29: p.90]

The results of those regression analyses indicate variables which are most important in determining job satisfaction and variables which less important in determining job satisfaction. The most important variables are those with large Beta coefficients and high levels of significance. The less important variables are those with smaller Beta's or those which are not statistically significant.

1. The most important variables in affecting job satisfaction

a. Life in military as expected

This variable had significantly (at .01 level) strong negative effect in determining job satisfaction for all models. Respondents were asked about life in military is about what their expected it to be. This variable was measured in five point

scale of agreement, 1 (strongly agree) to 5 (strongly disagree). This scale is on the opposite of satisfaction with military life's scale, which is why the relationships are negative meaning that the more strongly respondents disagree that life in the military is as expected to be, the lower their satisfaction with military life. The Beta coefficient was -.23 for all races. -.21 for Army, -.26 for Navy. -.23 for Marine Corps and -.21 for Air Force.

b. Job characteristics

Job characteristics is created from the factor 1 of the factor analysis of the working conditions variables. This variable significantly (at .01 level) indicated a strongly negative effect in determining job satisfaction for all models. Respondents were asked their feeling about working conditions. This variable was measured in five point scale of satisfaction, 1 (very satisfied) to 5 (very dissatisfied). This scale is on the opposite of satisfaction with military life's scale, which is why the relationships are negative, meaning that the more respondents feel dissatisfied with their job characteristics, the less they feel satisfied with military life. The Beta coefficient was -.49 for all races, -.49 for Army, -.48 for Navy, -.46 for Marine Corps and -.50 for Air Force.

c. Environment and benefits

Environment and benefits is created from factor 2 of the factor analysis of the working conditions variables. This variable significantly (at .01 level) indicated a strongly negative effect in determining job satisfaction for all models. This variable is measured on the opposite of satisfaction with military life's scale, which is why the relationships are negative, meaning that the more respondents feel dissatisfied with their environment and benefits, the less they feel satisfied with military life. The Beta coefficient was -.24 for all races, -.17 for Army, -.25 for Navy, -.24 for Marine Corps and -.29 for Air Force.

2. The less important variables on determining job satisfaction.

a. Mother's education

Mother's education significantly (at .10 level) contributed a slightly positive effect in determining job satisfaction for all races. The Beta coefficient was .02, which means a respondent with one standard deviation higher for his mother's education is .02 standard deviations more satisfied than others. This variable also significantly (at .10 level) indicated a slightly positive effect on determining job satisfaction for Air Force, but did not significantly contribute any effect on determining job satisfaction for Army. Navy, and Marine Corps.

b. Months of active duty

Months of active duty significantly (at .05 level) indicated a slightly negative effect in determining job satisfaction for all races. The Beta coefficient was -.02, which means that a respondent with one standard deviation longer on his active duty is .02 standard deviations less satisfied than others. This variable also significantly (at .10 level) indicated a slightly negative effect on determining job satisfaction for Marine Corps. The Beta coefficient was -.04. However, this variable did not significantly indicated any effect on determining job satisfaction for Army, Navy and Air Force.

c. Number of dependents

Number of dependents variable significantly (at .01 level) contributed positive effect in determining job satisfaction both for all races and Army. The Beta coefficient for all races was .04, which means a respondent with one more dependent is .04 degrees more satisfied than others. The Beta coefficient for Army was .06. This variable also significantly (at .05 level) indicated a slightly positive effect on determining job satisfaction for Air Force. The Beta coefficient was .04. This variable did not significantly indicated any effect on determining job satisfaction both for Navy and Marine Corps.

d. Military benefits in future will keep up with inflation

Military benefits in future will keep up with inflation significantly (at .01 level) indicated a slightly positive effect in determining job satisfaction both for all races and separately by branches of service, which means that the more military benefits in future is expected to keep up with inflation, the more respondents feel satisfied with military life. The Beta coefficient was .06 for all races, .08 for Army, .06 for Navy, .05 for Marine Corps and .04 for Air Force.

e. Living conditions

Living conditions is created from factor 1 of the factor analysis of living environment variables. This variable significantly (at .01 level) indicated a slightly negative effect in determining job satisfaction for all races and for Marine Corps. This variable is measured on the opposite of satisfaction with military life's scale, which is why the relationships are negative, meaning that the more respondents feel dissatisfied with their living conditions the less they satisfied with military life. The Beta coefficient was -.03 for all races and -.07 for Marine Corps. This variable did not significantly indicated any effect on determining job satisfaction for Army, Navy and Air Force.

f. Health

Health variable is created from factor 2 of the factor analysis of living environments variables. This variable significantly (at .10 level) indicated a slightly negative effect in determining job satisfaction for all races. This variable is measured on the opposite of satisfaction with military life's scale, which is why the relationships are negative, meaning that the more respondents feel dissatisfied with their health facilities on their living environments, the less they satisfied with satisfaction with military life. The Beta coefficient was .02. This variable also significantly (at .05 level) indicated a slightly negative effect on determining job satisfaction for Army, however this variable did not significantly indicated any effect on determining job satisfaction for Navy, Marine Corps and Air Force.

g. Branches of service

Using the Army as the base for the Branch of service dummy variable, the results significantly (at .01 level) indicated that Navy respondents feel slightly less satisfied than Army, the Beta coefficient was -.06. Marine Corps respondents significantly (at .1 level) indicated slightly less satisfied than respondents in the Army, the Beta coefficient was -.02 While Air Force respondents significantly (at .01 level) indicated a slightly higher level of satisfaction than respondents in the Army, the Beta coefficient was .06.

h. Races

Using Whites as the base for the race dummy variable, the results indicated that blacks had a significantly (at .01 level) higher level of satisfaction with military life than White respondents, the Beta coefficient was .03. While hispanics significantly (at .05 level) indicated a slightly higher level of satisfaction than White respondents, the Beta coefficient was .02.

3. Test involving the equality of coefficient of the models

Chow test were performed to test the equality of the regression coefficients of the models. Table 14 shows the results of the Chow tests for pairwise comparisons of the racial and branch of service groups.

The results of the Chow tests indicate that regression models for blacks, hispanics and whites are not significantly different from each other, which means that there isn't a need for separate models by race. However, the regression models for the Army, Navy, and Marines were significantly (at .05 level) different from each other, which means that separate regression models for each branch of service are appropriate.

TABLE 14
THE RESULTS OF THE CHOW TEST

Regre	ssion	model	F value	sig.
Army Navy Marine	VS VS VS VS	non-black non-hisp. non-white non-Army non-Navy non-Marine non Air Force	.908 .957 1.004 3.932 1.678 3.144 .532	** ** **
Note 7	* =	significance significance	level at .05 level at .10	

The reader should note the apparent contradiction that there are significant differences in mean satisfaction by race as presented in tables 1 and 12, but the results of the pairwise Chow tests on race indicate the absence of a need for separate models of satisfaction with military life for the three racial groups. These finding are the result of significant racial differences in the mean levels of job satisfaction, but multivariate models of job satisfaction that are similar in explaining variation around those mean levels of job satisfaction across racial groups.

IV. CONCLUSIONS AND RECOMMENDATIONS

A. CONCLUSIONS

The effect of race on satisfaction with military life, and the factors considered determinants of job satisfaction were significant in all analyses conducted by this study. The bivariate analysis indicated that the average feeling of satisfaction with military life of the black and hispanic respondents were statistically higher than the white respondents. This result was supported by the regression analysis results. The regression analysis results also indicated that the black and hispanic respondents were significantly more satisfied with their military life than white respondents. The bivariate analysis also indicated that race was a significant main effect in the determination of job satisfaction. Finally, the regression analysis indicate that the models of job satisfaction do not vary by race, but do vary by branch of service.

The regression analysis results, both by all races and branches of service indicated that military life as expected, job characteristics, and the environment and benefits variables are the most important explanatory variables and had a strong influence in determining job satisfaction. The variables where born, mother's education, months of service, number of dependents, retirement benefits, military benefits will keep up with inflation, living conditions and health variables had a lesser effect in determining job satisfaction, and the significance of these variables varied by branches of service.

B. RECOMMENDATIONS

The job characteristics variable is created from factor 1 of the factor analysis of the working conditions variables. Personal freedom, assignment stability, job-training, satisfaction with current job and environmental conditions are the most heavily loaded variables in this factor. The military policy-makers should pay attention to those variables because the regression results indicated that job characteristics has the strongest effect in determining job satisfaction. An attempt to improve the respondents satisfaction on these variables should significantly improve their satisfaction with military life.

The environment and benefits variable is created from factor 2 of the factor analysis of the working conditions variables. Medical care, dental care and commissary service are the most heavily loaded variables in this factor. Military policy-makers

should pay attention to those variables because the regression results indicated that environment and benefits is the second most important influence on job satisfaction. An attempt to improve the respondents satisfaction on these variables will also significantly improve their satisfaction with military life.

The measure of satisfaction with military life in the survey was a single measure, which asked the respondents to rate his or her satisfaction with military life on a seven point scale. The use of single measure of satisfaction has questionable accuracy. The single one time measure of job satisfaction may actually be measuring an individual's mood at the time of the survey. It is quite possible that an individual who is normally very satisfied with his or her job would express a great deal of dissatisfaction if they were surveyed shortly after an unpleasant work related experience. Future research on the effect of race on job satisfaction in the military would be greatly enhanced by using a multiple measures of job satisfaction, which might provide a more accurate picture of the respondent's feelings.

The regression analysis results indicated that respondents in the Air Force were significantly more satisfied than their counterparts in the other branches of service. A study to determine what are the significant factors which resulted in a higher level of satisfaction for the Air Force personnel might be helpful to the other branches of the service.

The effect of different branch of service missions, equipment, organization and procedures could result in a great number of job characteristics not being consistenly measured across branches of service. Future research should attempt to study the effect of race in determining job satisfaction for a single branch of the military in order to get a more accurate estimate of the effect of race on job satisfaction in the military.

Further analysis is needed to explore the apparant interaction of race and branch of service with regard to satisfaction with military life. Separate model of job satisfaction by branch of service and by race should be estimated and tests of model similarity conducted to explore the stability of such models of job satisfaction.

APPENDIX A

THE REGRESSION RESULTS FOR ALL RACES AND BRANCHES OF SERVICE

MULTIPLE R	.71948	ANALYS	IS OF VARIAN	ICE	
R SQUARE	.51765	DF	SUM OF	SQ.	MEAN SQUARE
ADJUS.R SQ.	.51597 REGI	RESS. 21	9220.45	314	439.06920
STAND.ERROR	1.19464 RES	IDUAL 6020	8591.56	5556	1.42717
F =	307.6501	7 SIC	GNIF F = .0	000	
	VARIABI	LES IN THE	EQUATION		
VARIABLE	В	SE B	BETA	T	SIG T
0103104C	.099365	.017209	.055706	5.774	.0000
HISP	.138430	.066133	.019597	2.093	.0364
E42	006064	.017134	003700	354	.7234
NAVY	226226	.047040	055703	-4.809	.0000
013E12	001227	.001680	007467	 730	.4652
0108104A	 361531	.016381	225044	-22.070	.0000
050E47	.009019	.029302	.003135	.308	.7582
BLACK	.159824	.053391	.027568	2.993	.0028
049E46B	.001021	.006040	.001749	.169	.8657
LIVING COND.	053900	.016789	031351	-3.210	.0013
HEALTH	034038	.018088	019747	-1.882	.0599
037E36	.035166	.074146	.004392	.474	.6353
0108104B	015863	.016566	009017	958	.3383
067E64	.099752	.023514	.041659	4.242	.0000
MARINE	088156	.046257	022030	-1.906	.0567
06E6	003534	.001544	023921	-2.290	.0221
049E46A	.014704	.007922	.019246	1.856	.0635
JOBCHAR	841681	.018793	485829	-44.787	.0000
ENV & BENFT.	403655	.018579	235601	-21.726	.0000
036E35	002181	.008012	003180	272	.7854
AIRFORCE	.218126	.044743	.058221	4.875	.0000
(CONSTANT)	4.763815	.245948		19.369	.0000

TOTAL CASES = 6042

APPENDIX B THE REGRESSION RESULTS FOR THE BLACKS

MULTIPLE R	.70166	ANALYS	IS OF VARIA	NCE		
R SQUARE	.49233	DF	SUM OF	SQUARES	MEAN SQ	UARE
ADJUS.R SQ.	.47531 RE	GRESS. 19	754.7	0862	39.72	151
STAND.ERROR	1.17156 RE	SIDUAL 567	778.2	3857	1.37	255
F =	28.9398	33 STGN	IF F = .00	000		
		LES IN THE EQ				
VARIABLE	В	SE B	BETA		SIG T	
0108104C	.091880	.049946	.059142	1.840	.0664	
MARINE	071146	.134694	018987	 528	.5976	
049E46A	018646	.024438	026427	 763	.4458	
0108104A	 276960	.049996	- .187725	- 5.540	.0000	
06 E 6	.003760	.004621	.026579	.814	.4162	
037E36	.870134	.301234	.087676	2.889	.0040	
067E64	.110611	.067321	.054533	1.643	.1009	
LIVING COND.	023661	.053841	014293	439	.6605	
E42	072075	.052378	052126	-1.376	.1693	
HEALTH	045391	.058617	026435	774	.4390	
0108104B	018039	.046925	012115	384	.7008	
NAVY	 387089	.150614	090761	-2.570	.0104	
013E12	002554	.004679	017834	 546	.5854	
050E47	.011873	.181107	.002192	.066	.9478	
049E46B	.020823	.019828	.035819	1.050	.2941	
ENV & BENFT.	- .386624	.060812	223743	- 6.358	.0000	
JOBCHAR	840223	.058965	510472	- 14.249	.0000	
AIRFORCE	.203477	.132365	.056391	1.537	.1248	
036E35	.028512	.026710	.042909	1.067	.2862	
(CONSTANT)	4.023905	.772640		5.208	.0000	

TOTAL CASES = 587

APPENDIX C THE REGRESSION RESULT FOR NON-BLACKS

MULTIPLE R	.72195	ANALYS	S OF VARIAN	CE	
R SQUARE	.52122	DF	SUM OF	SQ. MEAN	SQUARE
ADJUS.R SQ.	.51954 RE	GRESS. 19	8477.5	605 446	.1874
STAND.ERROR	.19701 RE	SIDUAL 5439	7787.3	864 1	.4328
		311.40467		.0000	
	VARIA	BLES IN THE	EQUATION		
VARIABLE	В	SE B	BETA	T	SIG T
0108104C	.098584	.018353	.054433	5.371	.0000
049E46B	002312	.006354	003951	364	.7160
037E36	048680	.074582	006179	- .653	.5140
NAVY	208775	.049727	051594	-4.198	.0000
013E12 -9	3.88759E-04	.001804	005926	548	.5836
050E47	.012602	.029916	.004522	.421	.6736
0108104A	369442	.017351	227893	-21.292	.0000
E42	.001936	.018207	.001157	.106	.9153
LIVING COND.	054347	.017748	031445	-3.062	.0022
HEALTH	030762	.019030	017792	-1.616	.1060
0108104B	014348	.017704	007996	810	.4177
067E64	.100968	.025142	.041268	4.016	.0001
MARINE	086047	.049323	021369	-1.745	.0811
06E6	004203	.001643	028332	-2.558	.0105
049E46A	.018020	.008351	.023402	2.158	.0310
JOBCHAR	837825	.019790	482149	-42.335	.0000
ENV & BENFT.	415440	.019521	241401	-21.281	.0000
036E35	005440	.008409	007910	647	.5177
AIRFORCE	.220535	.047584	.058664	4.635	.0000
(CONSTANT)	4.855538	.259566		18.706	.0000

TOTAL CASES = 5455

APPENDIX D
THE REGRESSION RESULTS FOR THE HISPANICS

MULTIPLE R R SQUARE ADJUS.R SQ. STAND.ERROR		RESS.	19 645.	OF SQ. M 53876	
F =	21.82103	3 s:	[GNIF F = .	0000	
	VARIABLES	IN THE E	QUATION		
VARIABLE	В	SE B	BETA	T	SIG T
0108104C	052477	.073229	029099	717	.4741
013E12	.003894	.007184	.022462	.542	.5881
NAVY	 579978	.186419	144240	-3.111	.0020
E42	039543	.065831	026077	601	.5484
0108104A	420303	.066767	268645	- 6.295	.0000
049E46B	.008953	.023571	.016874	.380	.7043
037E36	.043739	.156848	.010514	.279	.7805
050E47	.033601	.111131	.012520	.302	.7626
HEALTH	.150374	.080530	.079316	1.867	.0627
LIVING COND.	.084561	.078510	.044772	1.077	.2822
0108104B	.155094	.068954	.087882	2.249	.0251
AIRFORCE	074637	.198756	016996	376	.7075
067E64	.067370	.079592	.034955	.846	.3979
06E6	007222	.006358	047325	-1.136	.2567
ENV & BENFT.	479967	.077135	277584	-6.222	.0000
049E46A	.011311	.026404	.019262	.428	.6686
JOBCHAR	889102	.080506	505232	-11.044	.0000
MARINE	303156	.186500	075627	-1.626	.1049
	026036	.032600	039746	- .799	.4250
(CONSTANT)	6.052187	.844192		7.169	.0000

APPENDIX E REGRESSION RESULT FOR NON-HISPANICS

MULTIPLE R	.71977	ANAL	SIS OF VARI	ANCE	
R SQUARE	.51807		DF SUM OF	SQ. MEAN	SQUARE
ADJUST. R SQ.	.51644	REGRESS.	19 8602.1	016 452	.74219
STAND. ERROR	1.19104	RESIDUAL 56	8002.1	520 1	.41857
	F =	319.15399	SIGNIF	F = .000	0
	VARIA	BLES IN THE	EQUATION		
VARIABLE	В	SE B	BETA	T	SIG T
0108104C	.107727	.017714	.060440	6.081	.0000
037E36	.036230	.086189	.003905	.420	.6742
049E46A	.015290	.008348	.019324	1.832	.0671
NAVY	205752	.048658	050612	-4.229	.0000
0108104A	355952	.016905	221088	-21.056	.0000
013E12	001402	.001729	008560	811	.4175
O50E47	001575	.030393	-5.446E-04	052	.9587
E42	.003254	.017727	.001973	.184	.8543
LIVING COND.	057151	.017139	033487	-3.334	.0009
HEALTH	046656	.018639	027171	-2.503	.0123
0108104B	021971	.017110	012482	-1.284	.1992
067E64	.113999	.024583	.046574	4.637	.0000
MARINE	074237	.047807	018551	-1.553	.1205
06E6	003265	.001593	022147	-2.050	.0404
049E46B -9	.00177E-04	.006234	001526	144	.8852
JOBCHAR	836016	.019307	483518	-43.301	.0000
ENV & BENFT.	406944	.019083	237674	-21.325	.0000
036E35	002717	.008274	003947	328	.7427
AIRFORCE	.230089	.045940	.061929	5.008	.0000
(CONSTANT)	4.652947	.260315		17.874	.0000

APPENDIX F
THE REGRESSION RESULTS FOR THE WHITES

MULTIPLE R			S OF VARIAN		
R SQUARE	.52344	DF	SUM OF	~	MEAN SQUARE
	.52158 REGRES				398.64282
STAND.ERROR	1.19043 RESID	UAL 4866	6895.76	587	1.41713
•	= 281.30247		GNIF F = .0	0000	
	VARIABLES	~			
VARIABLE	В	SE B	BETA	Т	SIG T
0108104C	.114071	.019332	.062929	5.901	.0000
049E46B	001705	.006737	002876	 253	.8002
NAVY	177455	.052695	043876	-3.368	.0008
037E36	.040166	.108173	.003685	.371	.7104
013E12	001915	.001896	011505	-1.010	.3124
O50E47	.008348	.031905	.002990	.262	.7936
0108104A	 366402	.018327	224412	-19.992	.0000
E42	.007940	.019726	.004631	.402	.6873
LIVING COND.	- .053984	.018482	031494	-2.921	.0035
HEALTH	041206	.020031	023906	-2.057	.0397
0108104B	- .029576	.018773	016394	-1.575	.1152
067E64	.102937	.027366	.040672	3.761	.0002
MARINE	060984	.052148	015163	-1.169	.2423
049E46A	.017431	.009207	.021402	1.893	.0584
06E6	003900	.001731	026395	-2.253	.0243
JOBCHAR	831575	.020577	482111	-40.413	
ENV & BENFT.	- .403622	.020541	- .235392	-19.649	.0000
036E35	003452	.009201	004872	 375	.7076
AIRFORCE	.255042	.050100	.068584	5.091	.0000
(CONSTANT)	4.632010	.288475		16.057	.0000

APPENDIX G REGRESSION RESULT FOR NON-WHITES

MULTIPLE R R SQUARE ADJUS.R SQ.		DF RESS. 19	1669.3252	. MEAN 87.8	
STAND.ERROR	1.21142 RES	IDUAL 1136	1667.12713	1.4	16754
	F = 59	.86831	SIGNIF F	= .0000	
	VARIAB	LES IN THE	EQUATION		
VARIABLE	В	SE B	BETA	T	SIG T
0108104C	.047347	.037953	.028312	1.248	.2125
037E36	.067095	.104434	.013884	.642	.5207
MARINE	171552	.100894	043826	-1.700	.0893
049E46B	.006680	.013784	.011951	.485	.6280
013E12	.001473	.003669	.009421	.401	.6883
0108104A	346192	.036794	229269	- 9.409	.0000
050E47	.006860	.077814	.002038	.088	.9298
E42	041288	.035116	029336	-1.176	.2399
LIVING COND	040418	.040554	023163	- .997	.3191
HEALTH	.008697	.042757	.004920	.203	.8388
0108104B	.037230	.035507	.023119	1.049	.2946
NAVY	401321	.105337	096970	-3.810	.0001
067E64	.097595	.046636	.048461	2.093	.0366
06E6	001345	.003471	009108	387	.6986
ENV & BENFT	428698	.043093	247868	-9.948	.0000
049E46A	.007943	.015598	.012747	.509	.6107
JOBCHAR	845851	.044477	493124	-19.018	.0000
AIRFORCE	.067255	.101265	.017259	.664	.5067
036E35	001378	.016507	002267	083	.9335
(CONSTANT)	5.192823	.494328		10.505	.0000

APPENDIX H REGRESSION RESULT FOR ARMY

MULTIPLE R	.70878	ANALYSIS	of VARIANC	E	
R SQUARE	.50238	DF	SUM OF	SQ. MEA	N SQUARE
ADJ.R SQUAR	E .49565	REGRESS. 18	2100.9	693 11	6.7205
STAND.ERROR	1.24996	RESIDUAL 1332	2081.1	031	1.5623
	F =	74.70640	SIGNIF F =	0000	
	VARI	ABLES IN THE E	NOITAUQ		
VARIABLE	В	SE B	BETA	T	SIG T
0108104C	.141303	.038169	.077719	3.702	.0002
049E46B	.008429	.013236	.014479	.637	.5243
O37E36	114421	.155035	- .015077	 738	.4606
013E12	.004208	.004690	.019489	.897	.3698
BLACK	.257844	.105252	.049449	2.450	.0144
O50E47	.098747	.061657	.036372	1.602	.1095
0108104A	 336509	.035573	209426	-9.4 60	.0000
LIVING COND	047564	.037203	- .027256	-1.279	.2013
E42	022521	.036658	014077	- .614	.5391
HEALTH	- .094573	.040917	- .053667	-2.311	.0210
0108104B	043891	.036581	024173	-1.200	.2304
HISP	.361680	.140936	.053068	2.566	.0104
06E6	4.73307E-04	.003556	.002932	.133	.8941
067E64	.131295	.050059	.060187	2.623	.0088
049E46A	.012674	.017060	.016981	.743	.4577
ENV & BENFT	292993	.041955	 165670	- 6.983	.0000
JOBCHAR	854957	.041472	 490808	-20.615	.0000
O36E35	007999	.015479	013470	- .517	.6054
(CONSTANT)	4.561893	.518295		8.802	.0000

APPENDIX I
THE REGRESSION RESULTS FOR NON ARMY

MULTIPLE R .	71537	ANALYSIS	OF VARIANC	E	
R SQUARE .	51175	DF	SUM OF	sq. 1	MEAN SQUARE
ADJUS.R SQ	50987 REGR	ESS. 18	6943.36	08	385.74227
STAND.ERROR 1.		DUAL 4672	6624.48	69	1.41791
	F = 272.0	14943	SIGNIF F =	. 0000	
VARIABLE	В		BETA		SIG T
01001046	000710				
	.080719	.019442			
	.087936	.085564			
049E46B		.006862	005045	429	
013E12 -7.		.001807	004554	391	
050E47	011035	.033699	003763	327	.7433
LIVING COND.	021419	.018475	012543	-1.159	.2464
BLACK	.126238	.062973	.020964	2.005	.0451
0108104A	376418	.018629	234262	-20.206	.0000
E42	.028086	.019454	.017043	1.444	.1489
HISP	.006923	.075716	9.708E-04	.091	.9272
HEALTH	021453	.020358	012567	-1.054	.2920
0108104B	026898	.018615	015452	-1.445	.1485
067E64	.092112	.027107	.037214	3.398	.0007
ENV & BENFT.	411224	.037214	224762	-10.114	.0000
06E6	004646	.001734	032015	-2.680	.0074
049E46A	.014543	.009051	.018935	1.607	.1082
JOBCHAR	854819	.020998	493975	-40.709	
	004990	.009534	006907		
	4.611519	.280125	.000,07	16.462	
(COMPTANT)	4.011317	.200123		10.402	.0000

APPENDIX J
THE REGRESSION RESULTS FOR THE NAVY

MULTIPLE R	.72351		SIS OF VARIA		
R SQUARE	.52347	DF	SUM OF	~	N SQUARE
ADJUS.R SQ.		GRESS. 18	2083.57		5.75419
STAND.ERROR	1.16856 RE	SIDUAL 1389	1896.73	069	1.36554
	84.76826		IF F = .000		
	VARIABLE	_			
VARIABLE	В	SE B	BETA	Т	SIG T
0108104C	.107732	.035166	.060951	3.064	.0022
049E46A	.002454	.015423	.003311	.159	.8736
050E47	052486	.053815	021130	975	.3296
06E6	004258	.002976	030015	-1.431	.1527
BLACK	.009630	.123713	.001485	.078	.9380
037E36	.093868	.153216	.011801	.613	.5402
JOBCHAR	824921	.038389	475136	-21.489	.0000
HEALTH	042065	.037179	025084	-1.131	.2581
E42	.044367	.035142	.027742	1.263	.2070
HISP	036332	.125136	005601	290	.7716
LIVING COND.	017464	.033160	010360	527	.5985
0108104B	025207	.032778	014917	769	.4420
067E64	.058350	.046697	.024534	1.250	.2117
049E46B	.007154	.011885	.012415	.602	.5473
013E12	003764	.003194	024844	-1.179	.2388
0108104A	412776	.033993	259324	-12.143	.0000
ENV & BENFT.	423116	.038399	253848	-11.019	.0000
036E35	007412	.015401	011921	481	.6304
(CONSTANT)	4.399074	.488055		9.013	.0000

APPENDIX K THE REGRESSION RESULTS FOR NON-NAVY

MULTIPLE R	.71339		S OF VARIAN		AN COUADE
R SQUARE	.50893	DF	SUM OF		AN SQUARE
ADJUS.R SQ.			6988.37		8.24301
STAND.ERROR	1.20877 RESI	DUAL 4615	6743.13	390	1.46114
-	= 265.7132		GNIF F = .		
	VARIABLES				
VARIABLE	В	SE B	BETA	T	SIG T
0108104C	.090145	.019799	.050564	4.553	.0000
049E46B	001770	.007061	003031	251	.8020
037E36	.028183	.085419	.003526	.330	.7415
013E12	.001003	.001983	.005961	.506	.6129
0108104A	353600	.018792	220309	-18.817	.0000
BLACK	.178329	.059623	.031712	2.991	.0028
050E47	.038347	.035301	.012705	1.086	.2774
LIVING COND.	051820	.019173	030077	-2.703	.0069
E42	003788	.019656	002302	193	.8472
HEALTH	035595	.020704	020552	-1.719	.0856
HISP	.168142	.078173	.023235	2.151	.0315
0108104B	028724	.019142	016186	-1.501	.1335
067E64	.106991	.027466	.044735	3.895	.0001
06E6	003298	.001810	022106	-1.823	.0684
ENV & BENFT.	400131	.021292	 232563	-18.793	.0000
049E46A	.018380	.009303	.023917	1.976	.0482
JOBCHAR	864774	.021452	 501220	-40.312	.0000
036E35	.001969	.009421	.002784	.209	.8345
(CONSTANT)	4.641789	.283334		16.383	.0000

APPENDIX L
THE REGRESSION RESULT FOR MARINE

MULTIPLE R	.70491	ANALYSI	S OF VARIANCE	Ε	
R SQUARE	.49689	DF	SUM OF S	Q.	MEAN SQUARE
ADJUS.R SQ.	.49065 REGRE	SS. 18	2185.3	3114	121.40619
STAND.ERROR	1.23487 RESID	UAL 1451	2212.0	6347	1.52490
	F = 79.615	66	SIGNIF F =	.0000	
	VARIABLE				
VARIABLE	В	SE B	BETA	Т	SIG T
0108104C	.085002	.034338	.049908	2.475	.0134
BLACK	.195518	.110085	.033705	1.776	.0759
013E12	.001941	.003464	.012011	.560	.5754
049E46A	.019080	.016925	.025097	1.127	.2598
050E47	- .059871	.072014	016297	831	.4059
LIVING COND.	116221	.034879	066509	-3.332	.0009
037E36	.213571	.168534	.025008	1.267	.2053
E42	.005294	.042635	.002598	.124	.9012
0108104A	 363427	.033385	232436	-10.886	.0000
067E64	.075301	.051740	.028199	1.455	.1458
HEALTH	- .031609	.037290	 018312	848	.3968
0108104B	.016171	.035800	.008833	.452	.6516
HISP	.173267	.135192	.025570	1.282	.2002
06E6	006557	.003358	043608	-1.952	.0511
ENV & BENFT.	413141	.039178	237442	-10.545	.0000
049E46B	.001698	.012573	.002985	.135	.8926
036E35	001306	.020755	001421	- .063	.9498
JOBCHAR	812556	.039497	464807	-20.573	.0000
(CONSTANT)	4.326794	.596841		7.249	.0000

APPENDIX M THE REGRESSION RESULTS FOR NON-MARINE

MULTIPLE R .	70665 AN	ALYSIS OF	VARIANCE		
R SQUARE .	49936	DF	SUM OF	SQ.	MEAN SQUARE
ADJUS.R SQ	49722 REGRI	ESS. 18	6273	.74909	348.54162
STAND.ERROR 1.	22230 RESI	DUAL 4210	6289	.85886	1.49403
F =	233.28985	SIG	NIF F = .O	000	
	VARIABLES				
VARIABLE	В		BETA		SIG T
0108104C	.112704	.020641	.064143	5.460	.0000
E42	.007758	.021817	.004527	.356	.7222
HISP	.165388	.077039	.024709	2.147	.0319
06E6	003884	.001879	025962	-2.067	.0388
O50E47	.006851	.035218	.002410	.195	.8458
0108104A	- .370773	.019826	233897	-18.701	.0000
BLACK	.190969	.064394	.033277	2.966	.0030
LIVING COND.	044196	.020266	025605	-2.181	.0292
049E46B	.006264	.007235	.010888	.866	.3866
HEALTH	040450	.022009	023504	-1.838	.0662
0108104B	020167	.020168	011381	-1.000	.3174
037E36	.038625	.091395	.004824	.423	.6726
067E64	.112264	.028153	.047197	3.988	.0001
013E12 -9.	30242E-04	.002102	005483	443	.6581
049E46A	.008665	.009478	.011566	.914	.3606
ENV & BENFT.	393092	.022767	228071	-17.266	.0000
JOBCHAR	832005	.022971	478718	-36.219	.0000
036E35	006487	.009520	009683	681	.4957
(CONSTANT)	4.515182	.301648		14.968	.0000

APPENDIX N
THE REGRESSION RESULTS FOR THE AIR FORCE

MULTIPLE R	.71248	ANALYS	IS OF VARIA	NCE	
R SQUARE	.50762	DF	SUM OF	SQ. N	MEAN SQUARE
ADJUS.R SQ.	.50268 REG	RESS. 18	2388.	69690 1	132.70538
STAND.ERROR	1.13645 RES	IDUAL 1794	2316.	97437	1.29151
F	= 102.7518	7 SI	GNIF F = .	0000	
	VARIABLES	IN THE EQ	UATION		
VARIABLE	В		BETA		
0108104C	.076378	.031416	.043259	2.431	.0151
E42	022003	.027737	015198	- .793	.4277
037E36	.026931	.127368	.003553	.211	.8326
013E12	002870	.002788	019546	-1.029	.3035
049E46A	.026315	.014614	.034589	1.801	.0719
LIVING COND.	038601	.029128	023861	-1.325	.1853
BLACK	.121206	.095823	.021520	1.265	.2061
O50E47	.042122	.053538	.014987	.787	.4315
HEALTH	.007468	.030986	.004579	.241	.8096
HISP	.029798	.133604	.003776	.223	.8235
0108104B	004515	.029091	002661	155	.8767
0108104A	 339993	.029379	210903	-11.573	.0000
067E64	.087940	.042932	.038111	2.048	.0407
JOBCHAR	 799633	.031199	497226	-25.630	.0000
06E6	003613	.002707	026394	-1.334	.1822
049E46B	013968	.011080	024354	-1.261	.2076
ENV & BENFT.	470030	.031959	293572	-14.707	.0000
036E35	.003622	.014956	.005193	.242	.8087
(CONSTANT)	5.274727	.421664		12.509	.0000

APPENDIX O THE REGRESSION RESULTS FOR NON-AIR FORCE

MULTIPLE R R SQUARE ADJUS.R SQ. STAND.ERROR		ANALY DF RESS. 18 IDUAL 421	6273.	F SQ. ME. 7490 3	AN SQUARE 48.54162 1.49403
	F = 233.2898	5 97	GNIF F = .		
	VARIABLES				
VARIABLE	В	SE B	BETA		SIG T
0108104C	.112704	.020641	.064143	5.460	.0000
E42	.007758	.021817	.004527	.356	.7222
HISP	.165388	.077039	.024709	2.147	.0319
06E6	003884	.001879	025962	-2.067	.0388
050E47	.006851	.035218	.002410	.195	.8458
0108104A	370773	.019826	233897	-18.701	.0000
BLACK	.190969	.064394	.033277	2.966	.0030
LIVING COND	044196	.020266	025605	-2.181	.0292
049E46B	.006264	.007235	.010888	.866	.3866
HEALTH	040450	.022009	023504	-1.838	.0662
0108104B	020167	.020168	011381	-1.000	.3174
037E36	.038625	.091395	.004824	.423	.6726
067E64	.112264	.028153	.047197	3.988	.0001
013E12	-9.30242E-04	.002102	005483	443	.6581
049E46A	.008665	.009478	.011566	.914	.3606
ENV & BENFI	·393092	.022767	228071	- 17.266	.0000
JOBCHAR	832005	.022971	- .478718	-36.219	.0000
036E35	006487	.009520	009683	681	.4957
(CONSTANT)	4.515182	.301648		14.968	.0000

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